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ABSTRACT

Designed for local Alaskan fire departments, this pamphlet provides the criteria and qualifications for certificates of firefighter instructors (basic, advanced, master), a list of approved subject categories for each level of certification, sample certification applications, a list of resource publications, and a training course outline (basic and advanced) covering twenty-nine subject areas. The subject areas are the following: orientation, behavior of fire (science), extinguishers and extinguishing agents, small tools and equipment, communications, ropes and knots, breathing equipment, ladders, hoses, mathematics, water supply, fire streams, fire alarm systems, forcible entry, ventilation, rescue, salvage and overhaul, fire prevention and inspection practices, personal safety and hazards, apparatus familiarization, first aid, arson evidence, fireman's law, fire suppression, prefire planning, special fire problems, aircraft fire protection and rescue, fire service records and reports, and specialized equipment and techniques. (JH)

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Instructor Certification Standards

CE 019 997

State of Alaska

Fire Service Training

Instructor Certification Standards

August 1977

PREFACE

The fundamental purpose of the State Fire Service Training Program is to provide the means whereby fire service personnel in all established ranks may be trained, tested, and eventually certified as having met nationally recognized minimum performance standards.

The ultimate goal, of course, is to improve the level of service provided to the citizens of Alaska by developing fire service personnel to their maximum performance potential. In this, no distinction is made between paid professional and volunteer fire fighters.

The initial step in the program has been to develop a system whereby competent fire instructors can be identified, tested and certified by the State. Once this is accomplished, the system will extend to the training, testing and certification of firefighters at all proficiency levels.

The intent of this pamphlet is to provide local fire departments with the criteria for certification of instructors, a list of approved subject categories for basic and advanced firefighter certification, and a Study Reference Guide, covering thirty subject areas, from which questions for State proficiency examinations will be drawn. Unless otherwise indicated in the Study Reference Guide, all references will be based on the training publications of the International Fire Service Training Association as published by Oklahoma State University. For this reason, fire departments are urged to keep a current set of these publications in their station libraries.

Fire Service instructors applying for State Certification must meet all criteria for the various certification levels. Sample applications are included in this pamphlet for information purposes. Additional copies may be obtained from the Fire Service Training Office in Juneau. Individual applications must be submitted for each instructor requesting certification. All required background information must be included. The Fire Service Training Office will not solicit or research missing data and incomplete applications will be rejected.

Proficiency examinations will be conducted in most communities twice a year. Dates and locations will be announced by the Supervisor of Fire Service Training no later than thirty days prior to the time any examination is scheduled. In the event only one or two applicants are to be tested, such examinations may be conducted through a local school or community college on prior arrangement with the Fire Service Training Office. Every effort will be made to schedule examinations at times most convenient to local fire departments.

Since the mechanism for field testing physical skills of certification candidates is not presently available, fire chiefs are urged to determine that each candidate for instructor certification does, in fact, have the necessary skills before signing Section 3 of the application form. In certain instances, the Supervisor of Fire Service Training, on request or at his own discretion, may require candidates to demonstrate physical skills before a qualified observer.

Participation in this program by local fire departments is, of course, on a voluntary basis. If it is to be successful as a means of improving the quality of fire protection in Alaska, it must have the support of the fire service. We urge your fire department to indicate its support by participating to the fullest extent.

William A. Hagevig, Supervisor
Fire Service Training Program

STATE OF ALASKA
Department of Education
Fire Service Training Program

BASIC INSTRUCTOR CERTIFICATION

Validation Period: Five years from date of initial testing.*

Criteria: Basic Instructor Certification may be granted to those individuals who:

1. have completed 3 years of active fire department service above the probationary level.
2. successfully compete on the statewide Basic Instructor Certification Examination.
3. have satisfactorily completed a basic level fire service instructor course in methods and techniques of instruction. Subject course to be not less than 40 hours duration, and to include practice teaching and evaluation by two qualified observers.

Qualifications:

1. Any applicant must have 3 years experience (criteria #1) or complete 3 years experience within 3 months of a scheduled testing in order to take the Basic Instructor Certification examination.
2. Examination applicants do no need to have MOI course (criteria #3) to be tested. However, no certification will be granted until an approved MOI course is completed. All applicants have 3 years from initial testing to meet this criteria.

*3. All applicants will be tested on the 20 Basic Subject Categories. The applicant will be certified as a Basic Instructor in those topics receiving a 70% or better score. The applicant will have 3 years to successfully complete all 20 topics. Any retesting to pick up incomplete topics will be on only those topics not yet completed. If the applicant fails to complete all 20 topics within 3 years, he must begin testing on all 20 topics again as a "new" applicant. If the applicant completes all 20 topics within 3 years and meets all other criteria, the Basic Instructor Certification will be valid for 5 years from initial testing.

NOTE: Certified Basic Instructors are authorized to teach and to validate training records on only those topics successfully completed. This instruction, when in cooperation with the Fire Service Training Program, must adhere to State policy and reflect materials contained in the State Fire Training Manuals, i.e. IFSTA Training Manuals.

Any certification may be revoked by the Supervisor of Fire Service Training for any of the following reasons:

1. Expiration of validation.
2. Failure to maintain qualification.
3. Incompetence.
4. When the Supervisor of Fire Service Training determines that just and reasonable cause for revocation exists.

STATE OF ALASKA
Department of Education
Fire Service Training Program

SUBJECT CATEGORIES: BASIC CERTIFIED INSTRUCTOR LEVEL

1. ORIENTATION TO THE FIRE SERVICE
2. BEHAVIOR OF FIRE (SCIENCE)
3. PORTABLE EXTINGUISHERS AND EXTINGUISHING AGENTS
4. SMALL TOOLS AND EQUIPMENT
5. FIRE DEPARTMENT COMMUNICATIONS
6. ROPES AND KNOTS
7. BREATHING APPARATUS AND RELATED EQUIPMENT
8. GROUND LADDERS
9. HOSE PRACTICES
10. FIRE STREAMS
11. WATER SUPPLY
12. INSTALLED FIRE DETECTION AND PROTECTION SYSTEMS - BASIC
13. FORCIBLE ENTRY
14. VENTILATION
15. EXTRICATION AND RESCUE
16. SALVAGE AND OVERHAUL
17. INTRODUCTION TO FIRE PREVENTION AND INSPECTION
18. PERSONNEL SAFETY AND HAZARDS
19. FIRE APPARATUS FAMILIARIZATION
20. FIRE SUPPRESSION TECHNIQUES

STATE OF ALASKA
Department of Education
Fire Service Training Program

ADVANCED INSTRUCTOR CERTIFICATION

Validation Period: Five years from date of initial testing.*

Criteria: Advanced Instructor Certification may be granted to those individuals who:

1. have completed 4 years of active fire department service above the probationary levels.
2. have a valid certificate for all 20 topics of Basic Instructor Certification.
3. have completed a second 40 hour course in methods and techniques, practice teaching, and evaluation by two qualified observers.

Qualifications:

1. Any applicant must have 4 years experience (criteria #1) or complete 4 years within 3 months of a scheduled testing in order to take the Advanced Instructor Certification examination.
2. Examination applicants do not need to have the second MOI course (criteria #3) to be tested. However, no certification will be granted until a second approved MOI course is completed. All applicants have 3 years from initial testing to meet this criteria.
3. All Basic Instructors must wait one year from completion of the 20 Basic Instructor Certificate before making application to the Advanced Instructor category.

*4. Applicants will be tested on the 10 Advanced Subject Categories. An applicant will be certified as an Advanced Instructor in those topics receiving a 70% or better score. The applicant will have 3 years to successfully complete all 10 topics. Any retesting to pick up incomplete topics will be on only those topics not yet completed. If the applicant fails to complete all 10 topics within 3 years, he must begin the Basic Instructor testing again as a "new applicant, since his Basic Certificate is likely to have expired by that time. If the applicant completes the 10 topics within 3 years and meets all other criteria, the Advanced Instructor Certificate will be valid for five years from initial testing.

NOTE: Advanced Certified Instructors are authorized to teach all subjects at the Advanced Certified Firefighter level, and to validate training records for this level of instruction.

Certificate may be revoked for any of the following reasons:

1. Expiration of validation.
2. Failure to maintain qualification.
3. Incompetence
4. When the Supervisor of Fire Service Training determines that just and reasonable cause for revocation exists.

STATE OF ALASKA
Department of Education
Fire Service Training Program

SUBJECT CATEGORIES: ADVANCED CERTIFIED INSTRUCTOR LEVEL

21. MATHEMATICS FOR THE FIRE SERVICE
22. APPARATUS DRIVING AND OPERATION
23. FIREFIGHTER'S LAW
24. FIRE SUPPRESSION TACTICS AND STRATEGY
25. PRE-FIRE PLANNING
26. SPECIAL FIRE PROBLEMS
27. AIRCRAFT RESCUE AND FIREFIGHTING
28. SPECIALIZED EQUIPMENT AND TECHNIQUES
29. ARSON EVIDENCE
30. FIRE SERVICE RECORDS AND REPORTS

STATE OF ALASKA
Department of Education
Fire Service Training Program

MASTER INSTRUCTOR CERTIFICATION

Validation Period: Five years from date of issue.

Criteria:
Master Instructor Certification may be granted to those individuals who:

1. Have completed five (5) years of active fire department service above the probationary level.

2. Qualify as an Advanced Certified Instructor and hold certification at this level.

3. (a) Must have been a fire department officer for at least three years; or

   (b) Must have served a minimum of three years in the capacity of fire service instructor or training officer in a fire department with an organized training division; or

   (c) Must have served in the capacity of a fire service instructor or training officer as an authorized representative of a State agency, educational institution or political subdivision devoting full time to fire service training and related responsibilities.

4. Must have assigned responsibilities as an instructor or training officer, or have held either position within 24 months prior to application.

5. Must possess an Associate Degree or higher in Fire Science or related field from an accredited institution recognized by the State of Alaska.*

NOTE: Master Certified Instructors are authorized to teach all certification levels and subject areas of specialization in the fire service career hierachy for which they have earned qualification.

* At the discretion of the Supervisor of Fire Service Training, additional experience as a fire department officer may be substituted for educational requirements on a year for year basis.

STATE OF ALASKA
Department of Education
Fire Service Training Program

APPLICATION FOR INSTRUCTOR CERTIFICATION

DATE _____

Full Name _____
Last First MI

Home Address _____ Phone _____

Fire Department Address _____ Phone _____

Check one: ( ) Basic ( ) Advanced ( ) Master Application

---

1. PERSONAL RECORD

Date of Birth _____ Age _____ SSN: ___ - ___ - ____
Month Day Year

Place of Birth _____

Current employment _____

Fire Department Rank and Position _____

Previous fire experience (where, how long, rank held) _____

_____

_____

List three personal references:

1. _____

2. _____

3. _____
Name Title Fire Department

Are you interested in part-time teaching for the State? _____

If YES, what subjects? _____

_____

Are you available for statewide travel on occasion? _____

---

2. EDUCATION AND TRAINING RECORD

Include highest grade completed in formal education, special topics courses, workshops and seminars. Be sure to include any instructor training.

SAMPLE

School Name/Course Title	Length/hours	Date completed

SAMPLE

List experience in teaching (use above headings):

1. RECOMMENDATIONS

SAMPLE

It is recommended and requested that, pending conformance with State requirements, the Certificate applied for be awarded to this applicant. To the best of my knowledge, the applicant is of good moral character and has the desire and the ability to provide effective instruction for fire service personnel. I hereby certify that the applicant meets minimum criteria as required by the State of Alaska including the physical skills and talents necessary for teaching the courses at the certification level applied for as personally observed by me.

Signature of Training Officer or Director of Training

Signature of Fire Chief

I hereby agree to the conditions stipulated by the State of Alaska Fire Service Training Program in conducting, training, maintaining records and submitting reports.

Signature of Applicant

Approved: _____ Disapproved: _____

SAMPLE

State Supervisor
Fire Service Training Program

STATE OF ALASKA
Department of Education
Fire Service Training Program

SPECIAL INSTRUCTOR CERTIFICATE

Individuals having special skills, knowledge or abilities, but not qualifying under one of the other categories, may be certified to teach designated subjects relating to their special field of knowledge. Special certificates will be issued at the discretion of the Supervisor of Fire Service Training. Prior to certification the applicant must have his application and supporting papers on file with the office of the Supervisor of Fire Service Training. No education or Fire Service experience limitations will be applied to the special certification.

General:

1. Certificates will be issued, initially, for a period of one year.

2. In order to obtain renewal, the instructor must reapply at the expiration of the period of time for which the certificate was issued.

3. Termination of Certificate: Certification of an instructor shall be terminated for any of the following reasons:

   a. Expiration of the period of time for which certification was made.

   b. When the instructor fails to meet the requirements of the type of certification issued to him.

   c. When the Supervisor of Fire Service Training determines that just and reasonable cause exists for withdrawing the certification.

4. Instructors holding special certificates will be required to comply with conditions stipulated by the State Supervisor of Fire Service Training in conducting training, controlling examinations, maintaining records and submitting reports.

STATE OF ALASKA
Department of Education
Fire Service Training Program

SAMPLE

APPLICATION FOR SPECIAL INSTRUCTOR CERTIFICATION

Date _____

Full Name _____
(Print or Type)

Rank (if applicable) _____

Address (Home) _____

Address (Work) _____

Telephone Number: Home _____

Work _____

Fire Service Affiliation _____

_____

SAMPLE

Please Check One: Initial Application

Renewal _____
Previous Expiration Date

Basis for Certification Application _____

_____

_____

_____
Signature of Applicant

( ) Approved

( ) Disapproved (see below)

SAMPLE

_____

_____

_____

_____ _____
State Supervisor, Fire Service Training Date

RESOURCE PUBLICATIONS

IFSTA* MANNUAL	TITLE	EDITION	DATE
101	Forcible Entry, Rope & Extinguishers	5th	1972
102	Ground Ladder Practices	7th	1973
103	Fire Hose Practices	6th	1974
104	Salvage & Overhaul Practices	5th	1969
105	Fire Stream Practices	5th	1972
106	Fire Apparatus Practices	5th	1970
107	Fire Ventilation Practices	5th	1970
108	Fire Rescue & Breathing Apparatus	4th	1969
109	First Aid Practices	5th	1977
110	Fire Prevention & Inspection	4th	1974
200	Essentials of Firefighting	1st	1977
201	Fire Service Practices for Volunteer Fire Departments	5th	1971
202	Fire Service Orientation & Indoctrination	1st	1976
203	Fire Service Training Programs	2nd	1971
205	Water Supply	2nd	1971
206	Aircraft Fire Protection & Rescue	1st	1970
207	Ground Cover Firefighting Practices	1st	1973
208	Records & Reports for the Fire Service	1st	1975
209	Firefighters Occupational Safety	1st	1977
301	The Fire Department Officer	2nd	1967
302	Fire Department Facilities, Planning and Procedures	2nd	1970
303	Fire Service Instructor	3rd	1973
401	Principles of Mathematics	3rd	1966
402	Principles of Science	3rd	1967
403	Leadership in the Fire Service	1st	1967

NOTE: Above listed publications may be purchased from:

International Fire Service Training Association
Fire Protection Publications
Oklahoma State University
Stillwater, Oklahoma 74074

ADDITIONAL TEXT REFERENCES

The following texts are referred to in the Study Reference Guide in addition to the publications of the International Fire Service Training Association. All should be included in Station libraries.

N.F.P.A. ----------	Various publications of the National Fire Protection Association
Bahme ----------	"Fireman's Law Book", Charles W. Bahme, A.B., J.D.
Clark ----------	"Firefighting Principles and Practices", William E. Clark
Fried ----------	"Fireground Tactics", Emanuel Fried
F.S.T.P. ----------	Various publications of the State of Alaska, Fire Service Training Program

ALASKA DEPARTMENT OF EDUCATION
Fire Service Training Program

STUDY REFERENCE GUIDE

NOTE: Unless otherwide stated, all study references apply to I.F.S.T.A. Manuals.	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
I. ORIENTATION				
1. Outline of training program			203	132
2. Duties and responsibilities			203	20
3. Testing procedures			203	88
4. Familiarization with training facilities			203	60
5. Responsibilities of the training agency			203	7
6. Study Habits				
7. Departmental history, tradition, development, organization and structure	301 301	9-12 20,50		
8. Personnel policies			302	10
9. Operation of the fire department				
10. Duties and responsibilities of all personnel in the fire department				
11. General rules and procedures				
12. Employee activities and services				
13. Pay				
14. Self improvement and promotion opportunities	203	17-19 209-11		

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
TRAINING COURSE OUTLINE

CONTINUED, PAGE 2	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
I. ORIENTATION, CONT'D.				
15. Personal conduct/appearance				
16. Public relations	106	145-6		
17. The effects of PR on fire department budget and recruitment				
18. Fire department community image				
19. Methods of enhancing PR				
20. Public courtesy, service & cooperation				
21. Participation in community projects, i.e., children's programs and charitable causes				
22. Facilities available through the department				
23. Community facilities and obligations				
24. Higher education in the fire service	203	209		
25. Fire department terminology	202			
26. Response to alarms				
27. Fire protection clothing	107 108	104 59-60		
28. Law as it applies to the fire service (rights, duties and liabilities)			203	151
29. Familiarization with all reference literature and material			203	132-176

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
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CONTINUED, PAGE 3	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
II. FIRE BEHAVIOR - SCIENCE				
1. Principles of combustion	107	11-24 11-16		
2. Classes of fire and characteristics of combustibles	107	25-29		
3. Backdrafts	107	32-33	107 402	32 88
4. Characteristics and hazards of explosives			206 110	93-108 47-64
5. Handling, storing, transporting, classifying, categorizing and identifying explosives			206 110	95-108 49
6. Dot "Hi" System			110	55-61
7. Chemtrec				
8. Chem-card				
9. Placarding storage areas and transportation vehicles			108	11-24,47
10. Fire protection, fire prevention and firefighting of hazardous materials and chemicals			110	57
11. Applicable agents and techniques			206 110	98,107 58
12. Principles of fire control	107 201	73 171-186		
13. The fire triangle and tetrahedron concepts	107 110	11-15 36-37		
14. Methods of heat transfer	107	33-41	105 402	10-14 90-94
15. Stages and phases of burning	107 402	25-30 86-88		

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
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CONTINUED, PAGE 4	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
II. FIRE BEHAVIOR - SCIENCE, CONTINUED				
16. The law of heat flow			107 402	33 90-91
17. The law of specific heat			107 402	37 93
18. The law of latent heat of vaporization			107 402	39 94
19. Flammable liquids	107	17		
A) Flash point	206	28-30	107 402	17 82
B) Burning point			107	18
C) Ignition temperature			402 107	81 18
D) Vapor density	206	30	402 107	83 21
E) Explosive limits	206	28	402 107	82 20
F) Classification	107	19	402 206	83 28
G) Boiling point	402	96		
H) Specific gravity				
I) Transporting	110	49-55		
J) Identifying			206	28
K) Storing			110	49-60

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
TRAINING COURSE OUTLINE

CONTINUED, PAGE 5	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
II. FIRE BEHAVIOR - SCIENCE, CONTINUED				
L) Handling equipment			110	137-141
20. Compressed gases				
A) Appliances and piping			110	57
B) System installation				
C) Storage			402	61-62
D) Handling			110	49-55
E) Transportation			110	52
F) Manufacture			110	52-62
G) Safety Devices				
H) Identification			402	71
21. Boyle's Law			402	51
22. Charle's Law			402	51
23. Atmospheric pressure			402	52
24. The principles of a vacum			402	52
25. The syphon			402	52

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
TRAINING COURSE OUTLINE

CONTINUED, PAGE 6	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
II. FIRE BEHAVIOR - SCIENCE, CONTINUED				
26. The jet			402	56
27. Measurement of gas pressure			402	57
28. Reaction of confined gases to heat and cold			402	90-97
29. Pneumatic power			402	59
30. Vaporization and Condensation			402	60
31. Hazardous materials	206	93	108 110	16 57-61
32. Hazardous chemicals			109	41-46
33. Characteristics of matter			402	3
34. Chemical and physical properties			402	3, 4, 82
35. Indestructibility of matter			402	4
36. Measurements of matter & motion			402	5
37. Dimensions, mass, weight, time, density, specific gravity			402	5-7
38. The laws of motion, inertia, momentum, reaction, gravity, equilibrium, speed & pressure			402	13-14
39. Work, energy, and power			402	21
40. Principles and classes of levers, wheels, planes, pulleys, screws, and wedges			402	22-30

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
TRAINING COURSE OUTLINE

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COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
II. FIRE BEHAVIOR -SCIENCE, CONTINUED				
51. Spontaneous heating and ignition			402	83
52. Acids - hydrocholoric, citric, sulphuric, acetic, tartaric, other organic acids			402	73-74
53. Alkalies or bases-sodium hydroxide, sodium bicarbonate, sodium hydrogen carbonate, potassium hydroxide			402	73-75
54. Salts			402	75
55. Chemical equations			402	76
56. Molecular forces			402	69
57. Magnets and magnetism			402	99-102
58. Electrical structure of matter			402	104
59. Direct current			402	105
60. Alternating current			402	106
61. Transmission & transformation of electricity			402	106
62. Measuring & controlling electrical current			402	107
63. Batteries			402	109
64. Static electricity & lightning			402	111
65. Conductivity of material and extinguishing agents			105	23
66. Techniques of firefighting fires involving electricity			105	22
III. EXTINGUISHERS & EXTINGUISHING AGENTS				
1. Extinguisher principles and operation (all types)	101 201	140 43-55		

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
TRAINING COURSE OUTLINE

CONTINUED, PAGE 8	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
III. EXTINGUISHERS & EXTINGUISHING AGENTS-CONT'D				
2. Extinguisher ratings	101 201	139-142 45-46		
3. Extinguisher limitations, care, maintenance, applicability and testing	201 101	43-45 143-179		
4. Extinguishing agents - water, foams, carbon dioxide, halogenated hydrocarbons, dry chemical and dry powder - wetting agents	101 206 201	166-167 77-90 43-55		
5. Agent limitations, application, applicability and compatibility	101 206 201	135-171 77-90 43-55		
IV. SMALL TOOLS AND EQUIPMENT				
1. Identification, location, purpose use, transporting, car and maintenance of all hand tools and equipment	101 206 201	10-14 68-72 9-27		
V. COMMUNICATIONS				
1. Receiving and recording fire calls	206	113-120 176		
2. Dispatching equipment & apparatus	206	177	302	83-85
3. Relaying information to proper authorities	206	176,128-131		
4. Transmitting and receiving voice messages over all media	206	114,116		
5. Phonetic alphabet	206	118	206	118
6. Standard words and phrases	206	119	206	116,118

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
TRAINING COURSE OUTLINE

CONTINUED, PAGE 9	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
III. EXTINGUISHERS & EXTINGUISHING AGENTS CONTINUED				
4. Extinguishing agents - water, foams, carbon dioxide, halogenated hydrocarbons, dry chemical & dry powder - wetting agents	101 206 201	166-167 77-90 43-55		
5. Agent limitation, application, applicability and compatibility	101 206 201	135-171 77-90 43-55		
IV. SMALL TOOLS AND EQUIPMENT				
1. Identification, location, purpose, use, transporting, care and maintenance of all hand tools and equipment	101 206 201	10-14 68-72 9-27		
V. COMMUNICATIONS				
1. Receiving and recording fire calls	206	113-120		
2. Dispatching equipment & apparatus	206	177	302	83-85
3. Relaying information to proper authorities	206	176 128-131		
4. Transmitting and receiveing voice messages over all media	206	114, 116		
5. Phonetic alphabet	206	118	206	118
6. Standard words and phrases	206	119	206	116, 118
7. Communications with mutual aid participants	206	128	302 206	14-15 128-134
8. Special codes	206	135		

CERTIFIED FIRE FIGHTER
CERTIFIED INSTRUCTOR
TRAINING COURSE OUTLINE

CONTINUED, PAGE 10	CERTIFIED BASIC INSTRUCTOR		CERTIFIED ADVANCED INSTRUCTOR	
COURSE OUTLINE	STUDY REFERENCES Book No.	Page	STUDY REFERENCES Book No.	Page
V. COMMUNICATIONS CONTINUED				
9. Interconnected alarm and notification systems	206	113	203 206	134 113
10. Radio communication networks and procedure	206	115	206	115-116
11. Maintaining daily activity log and records on personnel, apparatus movements, fires, alarms and equipment tests	206 203	175 156	301	42-60
12. Familiarization with principles and operation of all communications equipment	206	113	206 302	113-120 14, 33-34
13. Tests required on communications equipment				
14. Fire department radio and receiving equipment operation and terminology	206	115-118		
15. Channels of communication in the fire service	301	58-60		
VI. ROPES AND KNOTS				
1. Purposes, uses, application, and care	201 203 101	31-40 145 89-128		
2. Types	101	89-92		
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